[redacted] **Final** **FOCUS REPORT**
New Chemicals Program

PART I: BACKGROUND

Written By: TKP

FOCUS DATE: 2/2/2006 **FOCUS CHAIR:** G. Hilton

COMPANY: [redacted]

CASE NUMBER(S): P06-0247 **through** **and**

PART II: SAT RESULTS

HEALTH: 1-2 **ECOTOX:** 3 **OCCUPATIONAL EXPOSURE:** 1B **CONSUMER EXPOSURE:** 3 **ENVIRONMENTAL RELEASES:** 3

ADDITIONAL SAT INFORMATION:

PART III: OTHER FACTORS

a. **PRODUCTION VOLUME:** [redacted] kg/yr

b. **PROD VOL OTHER:**

c. **USE:** [redacted]

d. **REGULATORY HISTORY:** [redacted] SUSP/PNDG NEGO VOL TEST
EXPOSURE-BASED
[redacted] WITHDRAWN - OTHER
[redacted] TR 2ND DISPO DROP/VOL TESTING
[redacted] REG NON 5E SNUR

e. **TEST DATA:**

f. **IMPORTED** ☐ **MANUFACTURED** ☑ **BOTH** ☐

g. **MSDS:** ☑

h. **CATEGORY:** [redacted] **CATEGORY 2:**

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PART IV: SUMMARY OF SAT ASSESSMENT

CASE NUMBER: P06-0247

FATE: [redacted]
liquid with mp < 20 C (P)
S = dispersible (P)
vp < 1.0E-6 mm Hg or torr at 20 C (P)
bp > 500 C (P)
H < 1.0E-8 (P)
log Koc > 4.5 (P)
log fish BCF = 0.50 (P)
sorption to sludge = low to moderate (P)
submitted test data for aerobic biodegradation were:
10% biodegradation in 30 d via CO2 evolution, thus, not readily biodegradable by the modified Sturm CO2 evolution test (OECD301B)
POTW removal = 25 to 50% via sorption and possible partial biodegradation
time for complete ultimate aerobic biodegradation = months
sorption to soils and sediments = low to moderate
PBT Potential: P2B1T1

HEALTH: Absorption is poor from the skin, moderate from the GI tract, and good from the lung based on analogs;

concern for lung toxicity and irritation to eyes, skin, mucous membranes based on the surfactant

properties of the PMN;

low to moderate concern for toxicity

ECOTOX: The toxicity profile for [redacted] is with ECs in mg/L (ppm), predicted (P), and measured (M):

[redacted]
liquid
S = dispersible
aerobic biodegradation was 10% CO2 in 30 d by the Modified Sturm;

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:
fish 96-h LC50 =< 0.200 P
fish (FHM) 96-h LC50 = 0.560 M S,N
daphnid 48-h LC50 =< 0.200 P
daphnid 48-h LC50 = 0.880 M S,N
green algal 96-h EC50 =< 0.200 P
green algal 96-h EC50 = 0.050 M S,N
fish chronic value =< 0.020 P SAR
fish ChV = 0.060 P FHM96/ACR10
daphnid ChV =< 0.020 P SAR
daphnid ChV = 0.090 P D48/ACR10
algal ChV =< 0.020 P SAR
algal ChV = 0.030 M S,N
Predictions are based on SARs for [redacted]; pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <180.0 mg/L as CaCO3; and TOC <2.0 mg/L;
high concern based on SAR;
high concern based on test data;
assessment factor (AsF) = 10.0
CC for fish = 0.006 mg/L
CC for daphnids = 0.009 mg/L
CC for green algae = 0.003 mg/L

PART V: SUMMARY OF EXPOSURE/RELEASE

Manu:
[redacted]

Fate: [redacted]
SWC: 3254.36 ppb
DW:LADD: 7.32e-5 mg/kg/d, ADD: 1.83e-4 mg/kg/d, ADR: 0.16 mg/kg/d
>COC (2 ppb): 9 of [redacted]

Fate: [redacted]
SWC: 5215.58 ppb
DW:LADD: 2.20e-4 mg/kg/d, ADD: 5.51e-4 mg/kg/d, ADR: 0.26 mg/kg/d
>COC (2 ppb): 9 of [redacted]

Fate: [redacted]
LADD: 2.81e-4 mg/kg/d, ADD: 7.02e-4 mg/kg/d

Proc/Use:
[redacted]

PART VI: FOCUS DECISION AND RATIONALE

DISPOSITION: Category-5(e) Ban Pend.UF Test

RATIONALE: P06-0247 will be regulated under TSCA 5(e) Category (Neutral Organics) Ban Pending Up-Front testing under the risk based authority for eco concerns. Potential risks to human health were addressed by negligible inhalation exposures and adequate dermal protection. Potential acute risks to the environment are from releases to water where the 2 ppb COC was exceeded for 9 out of [redacted] (SWC: 3254.36 ppb), and 9 out of [redacted] from [redacted] (SWC: 5215.58 ppb). Eco testing will be the base set, flow through method with measured concentrations. No fate testing was requested.

PART VII: CCD DISPOSITION / DD

CCD:

STRUCTURE ACTIVITY TEAM REPORT ver. 04/98	[redacted]
Case #: P-06-0247	**DCN:**
SAT Date: 1/27/06	**SAT Chair:** V. Nabholz

Submitter: [redacted]

Chemical Name:

[redacted]

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CAS RN: [redacted]	Trade Name: None

Structure

[redacted]

Molecular Formula: [redacted]		
Molecular Wt. [redacted]	WT%<500: [redacted]	WT%<1000: [redacted]
MP:	BP: > 500	Eq. Wt:
H2O Sol (g/L): Dispersible	V.P. < 0.000001	
Max. Prod. Volume (kg/yr): [redacted]	Physical State: Liquid	

USE:

Corrosion control in oil and gas wells and oil and gas pipe lines.
Analogs [redacted]
Amine FGEW = [redacted]

Related Case Numbers	Case Role	Related Case Numbers	Case Role

Focus Date: 2-2-06 Results: Slowest Exp

50100003218

STRUCTURE ACTIVITY TEAM REPORT [redacted] 27 January 2006

CASE NUMBER: **P06-0247**

RELATED CASES: [redacted] ANALOGS: [redacted]

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN: HEALTH ECOTOX

LEVEL OF CONCERN: 1-2 3

KEYWORDS: LUNG, IRR-E,S,MM, AQUATOX-A,C

SUMMARY OF ASSESSMENT

FATE: [redacted]
liquid with mp < 20 C (P)
S = dispersible (P)
vp < 1.0E-6 mm Hg or torr at 20 C (P)
bp > 500 C (P)
H < 1.0E-8 (P)
log Koc > 4.5 (P)
log fish BCF = 0.50 (P)
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submitted test data for aerobic biodegradation were:
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POTW removal = 25 to 50% via sorption and possible partial biodegradation
time for complete ultimate aerobic biodegradation = months
sorption to soils and sediments = low to moderate
PBT Potential: P2B1T1
*CEB FATE: migration to ground water = moderate to rapid

HEALTH: Absorption is poor from the skin, moderate from the GI tract, and good from the lung based on analogs;

concern for lung toxicity and irritation to eyes, skin, mucous membranes based on the surfactant properties of the PMN;

low to moderate concern for toxicity
*CEB HEALTH: Exposures to humans: inhalation, dermal;

ECOTOX: The toxicity profile for [redacted] is with ECs in mg/L (ppm), predicted (P), and measured (M):

[redacted]

liquid
S = dispersible
aerobic biodegradation was 10% CO2 in 30 d by the Modified Sturm;

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

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fish (FHM) 96-h LC50	=	0.560	M S,N
daphnid 48-h LC50	=<	0.200	P
daphnid 48-h LC50	=	0.880	M S,N
green algal 96-h EC50	=<	0.200	P
green algal 96-h EC50	=	0.050	M S,N
fish chronic value	=<	0.020	P SAR
fish ChV	=	0.060	P FHM96/ACR10
daphnid ChV	=<	0.020	P SAR
daphnid ChV	=	0.090	P D48/ACR10
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algal ChV	=	0.030	M S,N

Predictions are based on SARs for [redacted] pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <180.0 mg/L as CaCO3; and TOC <2.0 mg/L;
high concern based on SAR;
high concern based on test data;
assessment factor (AsF) = 10.0
CC for fish = 0.006 mg/L
CC for daphnids = 0.009 mg/L
CC for green algae = 0.003 mg/L
*CEB ECOTOX: All releases to surface waters with CC = 2 ppb.

SAT co-chair: Vince Nabholz, 564.8909

NOSAB SAT REPORT [redacted]

PMN: P-06-0247 CAS RN: [redacted]

Chemical Name: [redacted]

Analogs: [redacted]

Production Volume: [redacted]

Structure:

16 Dec 1997

[redacted]

Use:

Corrosion control in oil and gas wells and oil and gas pipe lines.

Analogs [redacted].

Formula:	[redacted]			Eq Wt:	[redacted]
Mol Weight:	[redacted]	Wt%<500:	[redacted]	Wt%<1000	[redacted]
MP:		BP:	> 500	VP:	< 0.000001
H2O Sol (g/L):	Dispersible	Physical State:	Liquid	Log P:	

Endpoint (mg/L)	Est. Value	Meas. Value	Comments
Fish 96-h			
Daphnid 48-h			
Algal 96-h			
Fish ChV			
Daphnid ChV			
Algal ChV			
			[redacted]
BCF			

CHEMICAL CLASS: SAR:

ECOTOX CONCERN H M L CONCERN CONCENTRATION

DATE ASSESSOR:

OPPT STRUCTURE ACTIVITY TEAM (SAT) MEETING DATE JAN 27 2006

ATTENDEES	SIGNATURE
CHEMISTRY	
___ Paul Bickart	
___ Diana Darling	
___ Rich Engler	
___ Greg Fritz	
___ Daniel Lin	
✓ Kathy Schechter	Kathy Schechter
___ _____	
ENVIRONMENTAL FATE	
___ Bob Boethling	
___ Wen-Hsiung Lee	
___ Laurence Libelo	MEMO
___ David Lynch	
___ Andy Mamantov	
___ _____	
HEALTH	
___ Katherine Anitole	
✓ Michael Cimino	
✓ Leonard Keifer	
✓ David Lai	
✓ Jim Murphy	MEMO
___ Deborah Norris	
✓ Ronald Ward	
___ Yin Tak Woo	
___ _____	
___ _____	
ENVIRONMENTAL EFFECTS	
✓ Gordon Cash	Gordon Cash
___ Vince Nabholz	
___ Maggie Wilson	
___ _____	
SAT CHAIR/OTHER	
___ Rebecca Jones	
___ Leonard Keifer	
✓ Vince Nabholz	
✓ Jim Kwiat	
___ Princess Campbell	